

Title (en)  
VEHICLE TRANSMISSION CONTROL DEVICE FOR MONITORING THE MAXIMUM TORQUE

Publication  
**EP 0120189 B1 19870729 (DE)**

Application  
**EP 84100351 A 19840114**

Priority  
DE 3311295 A 19830328

Abstract (en)  
[origin: EP0120189A2] 1. Control device for a vehicle driven by a motor by way of a transmission that preferably changes the transmission ratio in steps, which device has the following features : a) there is provided a store (36) recording the characteristics of the motor for ascertaining the instantaneous driving torque MA delivered by the motor (6) ; b) there is provided a sensor (16) registering the number of revolution per minute nR of at least one vehicle wheel (15) of which the output signal can be fed to a differentiating device for ascertaining a magnitude s of acceleration derived from the variation with time of the number of revolutions per minute of the vehicle wheel (15), c) there is provided a weight-assessment means (30) for calculating the weight of the vehicle from the instantaneous driving torque MA and the magnitude s of acceleration ; d) there is provided a torque-control device (24) for calculating a steady driving torque Mstat , which is necessary for driving the vehicle without acceleration, from the instantaneous torque MA , the vehicle weight G and the magnitude s of acceleration ; e) there is provided a transmission-control means (18) which, for the intended new gear, compares the steady torque M'stat with the maximum and the optimum torque of the motor and releases a control signal (46) for blocking a gear shift control (50) if the maximum or the optimum torque is exceeded ; f) the transmission-control means (18) contains a comparison device (45) which serves to store the maximum or optimum torques of the motor.

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IPC 8 full level  
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CPC (source: EP)  
**F16H 59/14** (2013.01); **F16H 61/0213** (2013.01); **F16H 59/48** (2013.01); **F16H 59/52** (2013.01); **F16H 2059/142** (2013.01); **F16H 2061/161** (2013.01)

Citation (examination)  
EP 0111636 A2 19840627 - WABCO WESTINGHOUSE FAHRZEUG

Cited by  
US4897790A; CN105556183A; US6519522B1; US6412361B1; US9714705B2; WO0014436A1; WO8605449A1; WO0014435A1; WO2014154228A1; WO0242108A1

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